

# Professional Master's Degree

## Vaccines in Nursing





## Professional Master's Degree Vaccines in Nursing

- » Modality: online
- » Duration: 12 months
- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online

Website: [www.techtitute.com/in/nursing/professional-master-degree/master-vaccines-nursing](http://www.techtitute.com/in/nursing/professional-master-degree/master-vaccines-nursing)

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# 01

# Introduction

Vaccination is an inseparable process from human life, since everyone, from birth, is involved in this process. The importance of vaccination is recognized worldwide, as it helps to prevent infections and eradicate diseases. In this process, nurses are the most involved professionals, who are in charge of management and administration. For this reason, TECH has designed this qualification of the highest educational level specifically for professionals who wish to increase their skills in this field.





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*Get to know the latest developments on vaccination and enhance your knowledge in this field. It will be a benefit to you and your patients"*

The vaccination process is transversal for all nurses, regardless of their field. Therefore, it is essential that these professionals acquire special skills to perform this task, especially when treating special patients such as children or people with some kind of phobia about this process.

In order to train nurses in the most relevant aspects of vaccination, TECH has designed this program, which compiles all the theoretical and practical information necessary for those nurses who need an update on the vaccination process and to consolidate their knowledge on this subject.

This program includes, in addition to the expected theoretical contents, a large quantity of extra resources so that the student has everything they need to achieve their objectives within their reach. Specific videos on cutting-edge topics, additional reading, quizzes and clinical cases are just a sample of all the resources offered to put into practice what has been learned.

The skills that the student will acquire and reinforce are related to the vaccination process. This way, the professional will be able to perform this process safely, improving the quality of the care they provide to their patients and will improve their skills in health education for their patients.

In this program, TECH has set out to offer the most comprehensive qualification on vaccination in a simple and easy-to-learn manner. Likewise, as it is a 100% online qualification, the student will have the opportunity to balance their studies with the rest of their daily obligations, so that they will be able to learn in a comfortable way.

This **Professional Master's Degree in Vaccines in Nursing** contains the most complete and up-to-date scientific program on the market. The most important features of the program include:

- ◆ More than 75 clinical cases presented by experts in vaccines
- ◆ The graphic, schematic, and practical contents with which they are created provide scientific and practical information on the disciplines that are essential for professional practice
- ◆ New developments on vaccinations
- ◆ Practical exercises where self-assessment can be used to improve learning
- ◆ An algorithm-based interactive learning system for decision-making in the clinical situations presented throughout the course
- ◆ Theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection assignments
- ◆ Content that is accessible from any fixed or portable device with an Internet connection



*Nurses are in direct contact with the vaccination process, so they must have a high level of knowledge about everything surrounding this matter"*



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*This Professional Master's Degree is the best investment you can make in a program to acquire the best and most up-to-date qualification in Vaccines in Nursing"*

Its teaching staff includes professionals from the field of Vaccines in Nursing, who bring the experience of their work to this program, as well as recognized specialists from leading scientific societies.

The multimedia content, developed with the latest educational technology, will provide the professional with situated and contextual learning, i.e., a simulated environment that will provide an immersive training program designed to train in real situations.

This program is designed around Problem-Based Learning, whereby the professional must try to solve the different professional practice situations that arise throughout the program. For this purpose, the professional will be assisted by an innovative interactive video system created by renowned and experienced experts in vaccination and extensive teaching experience.

*Our qualifications have the best teaching methodology and the latest educational tools, which will allow you to study from home, but without losing the possibilities offered by face-to-face classes.*

*We offer you the opportunity to study with a multitude of practical cases, so that you can learn as if you were attending real patients.*



# 02 Objectives

This Professional Master's Degree in Vaccines in Nursing is aimed at enhancing the nurse's performance and increasing their ability to treat patients who require this type of intervention with full guarantees of success.







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*Our goal is to offer our students the most complete program on the market so that they are able to excel and broaden their knowledge and, therefore, become more efficient in their profession”*



## General Objectives

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- ♦ Update knowledge of the vaccination process and disease prevention and its applicability in the population served that will allow the nursing professional to improve their skills when exercising their professional activity
- ♦ Know in depth and apply the research methodology at the clinical-care and methodological level in the field of the vaccination process
- ♦ Develop skills to transmit and sensitize the population to the importance and need for vaccines and the vaccination process itself, through health promotion strategies
- ♦ Training in the management of vaccines and vaccine management and prevention strategies for communicable diseases susceptible to vaccination

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*Acquire the most up-to-date knowledge in this field of work and apply advanced protocols in vaccinations in your day-to-day work”*





## Specific Objectives

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### Module 1. Fundamentals of Immunization

- ♦ Describe the history and major milestones of vaccination over time
- ♦ Establish the immunological bases on which to carry out the act of vaccination and the rationale for the same
- ♦ In-depth knowledge of the technologies used in the production of vaccines and their characteristics
- ♦ Establish the theoretical basis of vaccine safety, including the concept of pharmacovigilance and its practical application
- ♦ In-depth knowledge of how vaccines are created and the limitations of the process
- ♦ Determine the different compounds related to vaccines and their relationship with vaccines, such as adjuvants
- ♦ Identify the concept of vaccine response and how vaccine administration affects the body
- ♦ Recognize existing post-vaccine markers and their relationship to preventable disease

### Module 2. Epidemiology of Immunization

- ♦ Contextualize the concept of epidemiology in our social environment
- ♦ Know in depth the different existing applications of epidemiology and the concept of causality
- ♦ Identify the concept of epidemiological surveillance, the existing application in vaccines and its importance in the health context
- ♦ Learn more about the different communicable diseases and their prevention, as well as their transmission mechanism
- ♦ Apply knowledge of health determinants and explanatory models of health in their daily practice to improve the quality of their care
- ♦ Delve into the concept of the ERCC, the coordinating center for health alerts and emergencies, and its functions
- ♦ Integrate the concept of epidemic curve in the current epidemiological context
- ♦ Determine the different existing theoretical explanatory models of health and their relationship with population health
- ♦ Understand the concept of health determinants and how they affect self-care and population health

### Module 3. The Vaccine Process

- ♦ In-depth knowledge of the aspects of the vaccination process as a theoretical basis for learning the process itself, as well as its legal aspects
- ♦ Integrate cold chain knowledge into vaccine transport, control and preservation
- ♦ Correctly differentiate the different types of vaccines according to the classification determined between systematic and non-systematic vaccines and the different existing classifications
- ♦ Relate health safety in the concept of the vaccination process to the recording of vaccines in daily practice
- ♦ Identify the different patterns of vaccine administration, co-administration of vaccines with other products and existing vaccination routes
- ♦ Detect the real contraindications of vaccines versus false contraindications
- ♦ Integrate the necessary knowledge about vaccination emergencies to be able to act safely during daily practice

### Module 4. Routine Vaccines

- ♦ Identify the different vaccines classified as routine vaccines within the existing immunization schedules
- ♦ Learn more about the characteristics of the diphtheria-tetanus-tetanus-pertussis vaccine, the different types of existing vaccines and the correct administration guidelines
- ♦ Relate disease characteristics to the diphtheria-tetanus-pertussis vaccine
- ♦ Learn more about the characteristics of the polio vaccine, the different types of vaccine available and the correct administration guidelines
- ♦ Relate the characteristics of the disease to the polio vaccine
- ♦ Expand knowledge on the characteristics of the vaccine against Haemophilus Influenzae type B, the different types of existing vaccines and the correct administration guidelines
- ♦ Relate the characteristics of the disease to the Haemophilus Influenzae type B vaccine
- ♦ Know extensively the characteristics of the Hepatitis B vaccine, the different types of existing vaccines and the correct administration guidelines

- ♦ Relate the characteristics of the disease to the Hepatitis B vaccine
- ♦ In-depth study of the characteristics of the MenACWY vaccine, the different types of existing vaccines and the correct administration guidelines
- ♦ Relate disease characteristics to meningococcal vaccine MenACWY
- ♦ Learn more about the characteristics of the pneumococcal vaccine, the different types of vaccine available and the correct administration guidelines
- ♦ Relate the characteristics of the disease to the pneumococcal vaccine
- ♦ Know in depth the characteristics of the measles, rubella and mumps vaccine, the different types of existing vaccines and the correct administration guidelines
- ♦ Relate the characteristics of the disease to the measles, rubella and mumps vaccine
- ♦ Expand on the characteristics of the influenza vaccine, the different types of vaccine available and the correct administration guidelines
- ♦ Relate the characteristics of the disease to the influenza vaccine
- ♦ Know the characteristics of the varicella vaccine, the different types of existing vaccine and the correct administration guidelines
- ♦ Relate the characteristics of the disease to the chickenpox vaccine
- ♦ Know in depth the characteristics of the human papillomavirus HPV vaccine, the different types of vaccine available and the correct administration guidelines
- ♦ Relate the characteristics of the disease to the human papillomavirus HPV vaccine

### Module 5. Non-Routine Vaccines-Not Funded

- ♦ Identify the different vaccines classified as non-systematic vaccines
- ♦ Know in depth the characteristics of the allergy vaccine, the different types of existing vaccines and the correct administration guidelines Integrate the administration protocol in case of missed doses
- ♦ Apply the characteristics of the hepatitis A vaccine, the different types of existing vaccine and the correct administration guidelines
- ♦ Relate the characteristics of the disease to the hepatitis A vaccine

- ♦ Know In-depth the characteristics of the rabies vaccine, the different types of existing vaccine and the correct administration guidelines
- ♦ Relate the characteristics of the disease to the rabies vaccine
- ♦ Understand in depth the characteristics of rotavirus vaccine, the different types of vaccine available and the correct administration guidelines
- ♦ Relate the characteristics of the disease to the rotavirus vaccine
- ♦ Know extensively the characteristics of the vaccine against Japanese encephalitis, the different types of existing vaccines and the correct administration guidelines
- ♦ Relate the characteristics of the disease to the Japanese encephalitis vaccine
- ♦ Learn more about the characteristics of the yellow fever vaccine, the different types of vaccine available and the correct administration guidelines
- ♦ Relate the characteristics of the disease to yellow fever vaccine
- ♦ Learn more about the characteristics of the typhoid fever vaccine, the different types of vaccine available and the correct administration guidelines
- ♦ Relate the characteristics of the disease to the typhoid fever vaccine
- ♦ Learn more about the characteristics of the pneumococcal vaccine, the different types of vaccine available and the correct administration guidelines
- ♦ Relate the characteristics of the disease to the cholera vaccine
- ♦ Learn more about the characteristics of the TB vaccine, the different types of vaccine available and the correct administration guidelines
- ♦ Relate the characteristics of the disease to the TB vaccine
- ♦ Specialize in the characteristics of the meningococcal B vaccine, the different types of existing vaccines and the correct administration guidelines
- ♦ Relate disease characteristics to meningococcal vaccine B

### **Module 6. Nursing Methodology in Vaccines**

- ♦ Identify the different stages of the nursing care process and apply it to the vaccination process
- ♦ Integrate the vaccination process within the nursing care process in a theoretical-practical way
- ♦ Know in depth the most appropriate standardized nursing diagnoses according to the current methodology within the vaccination process
- ♦ Apply the most appropriate nursing interventions for each situation within the vaccination process according to the NIC classification
- ♦ Relate the different types of prevention in a community context to the nursing vaccination process
- ♦ Integrate the vaccination process within the theoretical nursing specialization and in conjunction with advanced practice nursing
- ♦ Determine the actuality of nursing within immunization

### **Module 7. Adult Vaccination**

- ♦ Gain an in-depth understanding of the numerous adult vaccination schedules existing in our healthcare environment and the main differences between them
- ♦ Integrate the bases on which the concept of the vaccination schedule is based within the disease prevention and health promotion strategies of the different health systems
- ♦ Specialize in the main vaccines, their characteristics and the correct vaccination schedule for the adult population between 19 and 64 years of age
- ♦ Correctly differentiate the changes within the vaccination schedule in the elderly population with respect to the adult population

- ♦ In-depth knowledge of the main vaccines, their characteristics and the correct vaccination schedule for the population over 64 years of age
- ♦ Understand in depth the characteristics of pregnant women in relation to the vaccination process
- ♦ Integrate the concept of vaccine correction in the adult population
- ♦ Determine the correct vaccination schedule to be established in adults living with patients with pathology at risk
- ♦ Apply the actions to be carried out by the nurse in case of post-exposure prophylaxis
- ♦ Identify the differences in the application of the vaccination process in women breastfeeding compared to the rest of the population
- ♦ Correctly differentiate the changes in the vaccination schedule in the healthcare population with respect to the rest of the population

### **Module 8. Pediatric Vaccination**

- ♦ Gain an in-depth understanding of the numerous pediatric immunization schedules existing in our healthcare environment and the main differences between them
- ♦ Integrate the bases on which the concept of the paediatric vaccination schedule is based within the disease prevention and health promotion strategies of the different health systems
- ♦ Differentiate the stages of vaccination at the pediatric level, from primary vaccination to booster vaccines
- ♦ Specialize in the main vaccines, their characteristics and the correct vaccination schedule for the pediatric population aged 0-12 months
- ♦ In-depth knowledge of the main vaccines, their characteristics and the correct vaccination schedule for the pediatric population between 12 months and 4 years of age

- ♦ In-depth knowledge of the main vaccines, their characteristics and the correct vaccination schedule for the pediatric population aged 4-14 years
- ♦ Specialize in the main vaccines, their characteristics and the correct vaccination schedule for the adolescent population
- ♦ Know in depth the differences in the vaccination process in an infant considered premature according to current standards with respect to full-term infants
- ♦ Determine the concept of a global immunization strategy GIVS
- ♦ Recognize the myths and false beliefs that exist within the pediatric vaccination process

### **Module 9. Vaccination in Special Situations**

- ♦ Determine the situations that require the creation of an accelerated vaccination schedule at different life stage
- ♦ Establish accelerated vaccination schedules adapted to the specific situations that require them
- ♦ Deepen in the main differences in the vaccination process in a pediatric patient with primary immunodeficiencies with respect to a pediatric patient without them
- ♦ Establish a correct vaccination schedule in pediatric patients with primary immunodeficiencies
- ♦ Specialize in the main differences in the vaccination process in a pediatric patient with anatomical or functional asplenia compared to a pediatric patient without it
- ♦ Establish a correct vaccination schedule in pediatric patients with anatomical or functional asplenia



- ♦ Know in depth the main differences in the vaccination process in a pediatric patient with HIV compared to a pediatric patient without the infection
- ♦ Establish a correct vaccination schedule in pediatric patients with HIV
- ♦ Deepen in the main differences in the vaccination process in a pediatric patient with cancer with respect to a pediatric patient without cancer
- ♦ Establish a correct vaccination schedule in pediatric patients with cancer
- ♦ Deepen in the main differences in the vaccination process in a pediatric patient with solid organ or hematopoietic transplant compared to a pediatric patient without them
- ♦ Establish a correct vaccination schedule in pediatric patients with solid organ or hematopoietic transplantation
- ♦ Know in depth the main differences in the vaccination process in a pediatric patient with down syndrome with respect to a pediatric patient without it
- ♦ Establish a correct vaccination schedule in pediatric patients with down syndrome
- ♦ Manage the main differences in the vaccination process in an immigrant/migrant patient
- ♦ Establish a correct vaccination schedule in immigrant/migrant patients
- ♦ Establish a correct vaccination schedule in patients considered international travellers
- ♦ Identify basic health education information for international travelers
- ♦ Deepen in the main differences in the vaccination process in healthcare personnel

### **Module 10. The Future of Vaccines**

- ♦ Know the different vaccines currently being created in the world and where they are in the process
- ♦ Relate the vaccination process to how it is exposed to the rest of the world through the media in its different ways
- ♦ Establish the basis of the concept called reverse vaccinology and to know the genome concept
- ♦ Identify the different vaccination strategies existing worldwide by the different existing organizations and their most important differences
- ♦ Have an in-depth knowledge of the current anti-vaccine movements and what should be a correct approach in daily practice
- ♦ Relate the current epidemiological situation to the COVID-19 situation and vaccines
- ♦ Become familiar with the different sources of reliable information available on the web about vaccines in order to be able to pass it on to patients at a later date
- ♦ Identify the *Vaccine Safety Network* concept and know its theoretical basis
- ♦ Establish different basic tips when finding reliable scientific information about vaccines on the Internet

# 03 Skills

After passing the assessments of the Professional Master's Degree in Vaccines in Nursing, the professional will have acquired the necessary professional skills to act safely and competently in the areas of intervention required in the care of critical patients and in emergencies.





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*Continue your education with TECH and get up-to-date to manage your patients in the vaccination process”*



## General Skills

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- Perform this vaccination process safely, improving the quality of care you provide to your patients
- Counsel patients in health education

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*We offer you the opportunity to train in this fast-moving field"*





## Specific Skills

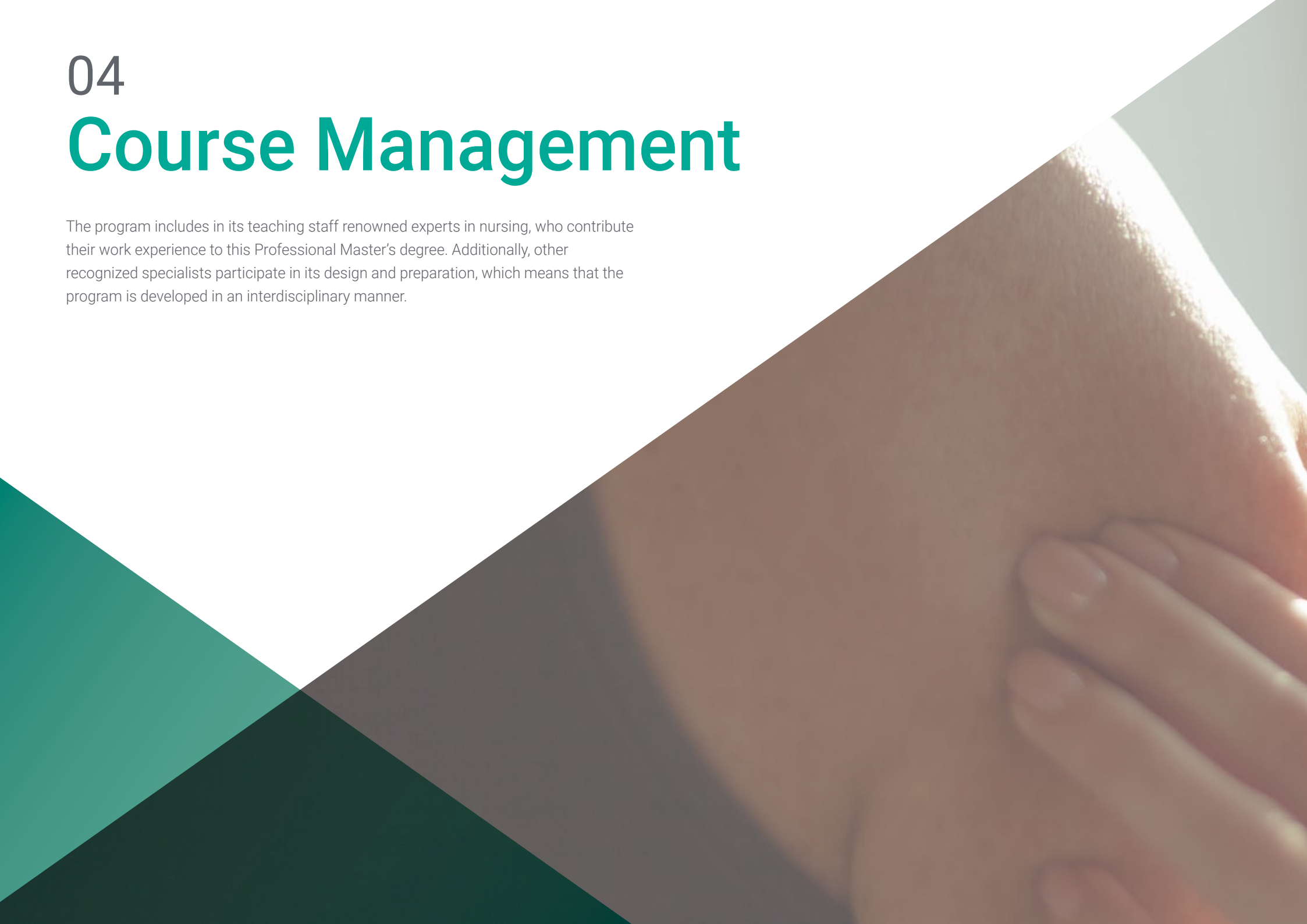
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- ◆ Know the foundations of immunity and the vaccination process
- ◆ Have a broad knowledge of epidemiology
- ◆ Carry out the vaccination process safely
- ◆ Know which vaccines are included in the different existing vaccination schedules, what these vaccines are used for, what prevention measures exist for this disease and what types of vaccines exist for each of these diseases
- ◆ Conduct a health education intervention on vaccines
- ◆ Integrate the vaccination process into the nursing care process
- ◆ Know some specific circumstances within the group of adults when performing the vaccination process, such as the administration of vaccines in pregnant women and during breastfeeding
- ◆ Act safely in the vaccination process in children, improving the quality of their care
- ◆ Providing patients with tools to improve their self-care in health

04

# Course Management

The program includes in its teaching staff renowned experts in nursing, who contribute their work experience to this Professional Master's degree. Additionally, other recognized specialists participate in its design and preparation, which means that the program is developed in an interdisciplinary manner.







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*Leading experts in the field are at the best university to help you achieve professional success”*

## Management



### Ms. Hernández Solís, Andrea

- Nurse Specialist in Family and Community Nursing at Getafe University Hospital
- Nurse Assistant in Primary Care in Madrid
- Teacher and tutor in different postgraduate programs since 2015



## Professors

### Ms. Anula Morales, Irene

- ◆ Specialist Nurse in Mental Health
- ◆ Diploma in Nursing, Autonomous University of Madrid ( Puerta de Hierro University School) 2009-2012
- ◆ Short Stay Hospitalization Unit for Children and Adolescents at Puerta de Hierro University Hospital. Since 2019
- ◆ Academic Coordinator in School Health Expert 2020-2021, Foundation for the Development of Nursing (FUDEN)
- ◆ Tutor of Clinical Residency 2020-2022. Puerta de Hierro University Hospital

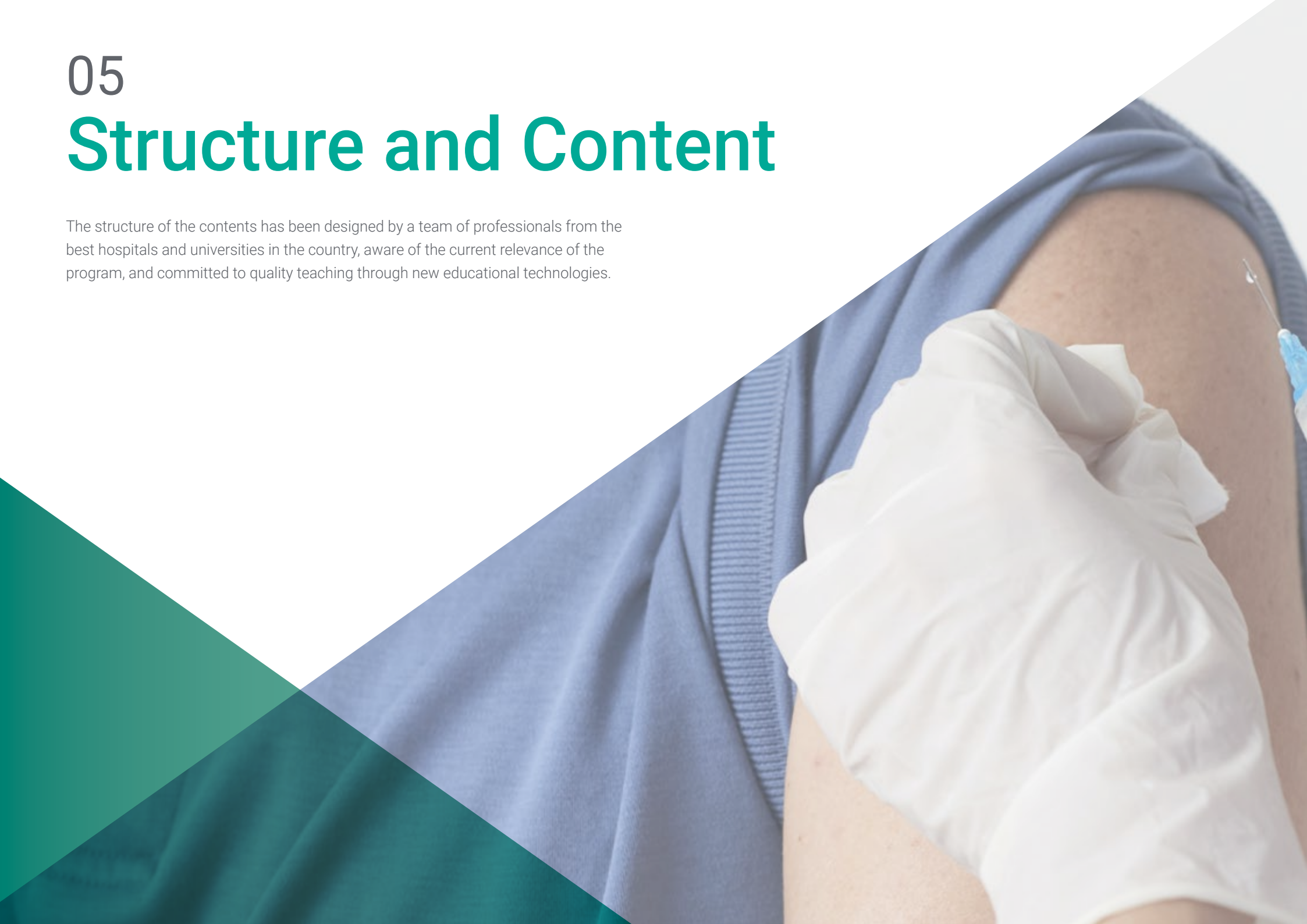
### Ms. Rodrigues Fernández, Erica

- ◆ Nurse Specialist in Pediatric and Obstetric-Gynecological Nursing
- ◆ Teacher and tutor at postgraduate course level, competitive examinations and specialized training
- ◆ Nurse Assistant as a midwife

05

# Structure and Content

The structure of the contents has been designed by a team of professionals from the best hospitals and universities in the country, aware of the current relevance of the program, and committed to quality teaching through new educational technologies.



“

*TECH has the most complete and up-to-date educational program on the market. We strive for educational excellence and we want you to achieve it too"*



## Module 1. Fundamentals of Immunization

- 1.1. History and Milestones of Vaccination
  - 1.1.1. Most Important Vaccination Milestones
- 1.2. Fundamentals and Immunological Basis of Vaccines
- 1.3. Vaccine Production Technologies
- 1.4. Vaccine Safety
  - 1.4.1. Features for Safe Vaccination
- 1.5. Pharmacovigilance in Vaccines
  - 1.5.1. Vaccine Surveillance Network
- 1.6. Vaccine Development
- 1.7. Vaccine Adjuvants and Other Compounds
  - 1.7.1. Types of Adjuvant Vaccines
  - 1.7.2. Vaccine Stabilizers
- 1.8. Vaccine Response
- 1.9. Post-vaccination Markers
  - 1.9.1. Types of Vaccine Markers
  - 1.9.2. Interpretation of Vaccine Markers

## Module 2. Epidemiology of Immunization

- 2.1. Application of Epidemiology Causality
  - 2.1.1. Koch-Henle Model
  - 2.1.2. Bradford-Hill Model
  - 2.1.3. Rothman Model
  - 2.1.4. Hume Model
- 2.2. Epidemiological Surveillance
  - 2.2.1. RENAVE Vaccine Surveillance Network
  - 2.2.2. Sentinel Physicians
  - 2.2.3. Mandatory Disease Reporting
- 2.3. Transmissible Diseases
  - 2.3.1. Most Prevalent Communicable Diseases
  - 2.3.2. Transmissible Digestive Transmitted Diseases
  - 2.3.3. Transmissible Diseases Transmitted Through Contact

- 2.4. Epidemiological Chain in Transmissible Diseases
  - 2.4.1. Stages Within the Epidemiological Chain
- 2.5. Epidemiological Health Surveys
  - 2.5.1. Design of Epidemiological Surveys
  - 2.5.2. Seroprevalence Surveys
- 2.6. Epidemic Curves
  - 2.6.1. How to Design Epidemic Curves
- 2.7. Theoretical Explanatory Models of Health
  - 2.7.1. Applications of Health Models
- 2.8. Health Determinants
  - 2.8.1. How Do the Determinants of Health Affect the Population?

## Module 3. The Vaccine Process

- 3.1. Basic Aspects of Vaccination
  - 3.1.1. What Is the Vaccination Process?
- 3.2. Legal Aspects of Vaccination
  - 3.2.1. Institutions Involved in the Vaccination Process
- 3.3. Transport and Storage of Vaccines
  - 3.3.1. Cold Chain
  - 3.3.2. Elements Involved in the Transport and Conservation of Vaccines
- 3.4. Vaccine Classification
  - 3.4.1. Types of Vaccine Classification
  - 3.4.2. Viral and Bacterial Vaccines
  - 3.4.3. Attenuated and Inactivated Vaccines
- 3.5. Routine Vaccines
  - 3.5.1. What Are Routine Vaccines?
  - 3.5.2. Vaccines Included in Routine Immunizations
- 3.6. Non-Routine Vaccines
  - 3.6.1. What Are Non-Routine Vaccines?
  - 3.6.2. Vaccines Included in Non-Routine Vaccination
- 3.7. Vaccine Safety



- 3.8. Vaccine Administration and Registration
  - 3.8.1. Process of Vaccine Registration
  - 3.8.2. Process of Vaccine Administration
- 3.9. Co-Administration of Vaccines and Other Biological Products
  - 3.9.1. Vaccination Intervals Between Vaccines and Other Biological Products
  - 3.9.2. Vaccination Intervals Between Vaccines and Between Doses of the Same Vaccine
- 3.10. Vaccination Routes
  - 3.10.1. Different Existing Vaccination Routes
- 3.11. Contraindications and Adverse Effects of Vaccines
  - 3.11.1. False Contraindications in Vaccines
  - 3.11.2. Relative Contraindications in Vaccination
  - 3.11.3. Absolute Contraindications in Vaccination
  - 3.11.4. Most Frequent Adverse Effects in Vaccination
- 3.12. Vaccination Emergencies
  - 3.12.1. Possible Emergencies in the Vaccination Process
  - 3.12.2. Nursing Action in the Event of an Emergency During Vaccination

## Module 4. Routine Vaccines

- 4.1. Diphtheria-Tetanus-Pertussis Vaccine
  - 4.1.1. Disease Characteristics
  - 4.1.2. Types of Existing Vaccines
  - 4.1.3. Vaccination Guidelines
- 4.2. Polio Vaccine
  - 4.2.1. Disease Characteristics
  - 4.2.2. Types of Existing Vaccines
  - 4.2.3. Vaccination Guidelines
- 4.3. Haemophilus Influenzae Type B Vaccine
  - 4.3.1. Disease Characteristics
  - 4.3.2. Types of Existing Vaccines
  - 4.3.3. Vaccination Guidelines

- 4.4. Hepatitis B Vaccinations
  - 4.4.1. Disease Characteristics
  - 4.4.2. Types of Existing Vaccines
  - 4.4.3. Vaccination Guidelines
- 4.5. Meningococcal Vaccine ACWY
  - 4.5.1. Disease Characteristics
  - 4.5.2. Types of Existing Vaccines
  - 4.5.3. Vaccination Guidelines
- 4.6. Pneumococcal Vaccine
  - 4.6.1. Disease Characteristics
  - 4.6.2. Types of Existing Vaccines
  - 4.6.3. Vaccination Guidelines
- 4.7. Measles, Mumps and Rubella Vaccination
  - 4.7.1. Disease Characteristics
  - 4.7.2. Types of Existing Vaccines
  - 4.7.3. Vaccination Guidelines
- 4.8. Influenza Vaccine
  - 4.8.1. Disease Characteristics
  - 4.8.2. Types of Existing Vaccines
  - 4.8.3. Vaccination Guidelines
- 4.9. Varicella Vaccine
  - 4.9.1. Disease Characteristics
  - 4.9.2. Types of Existing Vaccines
  - 4.9.3. Vaccination Guidelines
- 4.10. Human Papillomavirus Vaccine
  - 4.10.1. Disease Characteristics
  - 4.10.2. Types of Existing Vaccines
  - 4.10.3. Vaccination Guidelines

## Module 5. Non-Funded Non-Routine Vaccines

- 5.1. Allergies Vaccine
  - 5.1.1. Disease Characteristics
  - 5.1.2. Types of Existing Vaccines
  - 5.1.3. Vaccination Guidelines
- 5.2. Hepatitis A Vaccine
  - 5.2.1. Disease Characteristics
  - 5.2.2. Types of Existing Vaccines
  - 5.2.3. Vaccination Guidelines
- 5.3. Rabies Vaccine
  - 5.3.1. Disease Characteristics
  - 5.3.2. Types of Existing Vaccines
  - 5.3.3. Vaccination Guidelines
- 5.4. Rotavirus Vaccine
  - 5.4.1. Disease Characteristics
  - 5.4.2. Types of Existing Vaccines
  - 5.4.3. Vaccination Guidelines
- 5.5. Japanese Encephalitis Vaccine
  - 5.5.1. Disease Characteristics
  - 5.5.2. Types of Existing Vaccines
  - 5.5.3. Vaccination Guidelines
- 5.6. Yellow Fever Vaccine
  - 5.6.1. Disease Characteristics
  - 5.6.2. Types of Existing Vaccines
  - 5.6.3. Vaccination Guidelines
- 5.7. Typhoid Fever Vaccine
  - 5.7.1. Disease Characteristics
  - 5.7.2. Types of Existing Vaccines
  - 5.7.3. Vaccination Guidelines
- 5.8. Cholera Vaccine
  - 5.8.1. Disease Characteristics
  - 5.8.2. Types of Existing Vaccines
  - 5.8.3. Vaccination Guidelines





- 5.9. Tuberculosis Vaccine
  - 5.9.1. Disease Characteristics
  - 5.9.2. Types of Existing Vaccines
  - 5.9.3. Vaccination Guidelines
- 5.10. Meningococcal B Vaccine
  - 5.10.1. Disease Characteristics
  - 5.10.2. Types of Existing Vaccines
  - 5.10.3. Vaccination Guidelines

## Module 6. Nursing Methodology in Vaccines

- 6.1. History of Nursing in Immunization
- 6.2. The Nursing Care Process
  - 6.2.1. Stages Within the Nursing Care Process
- 6.3. Vaccination Within the EAP
- 6.4. Most Commonly Used Nursing Diagnoses in Vaccination
  - 6.4.1. Most Common NANDA Diagnoses in the Vaccination Process
- 6.5. Nursing Interventions in the Vaccination Process
  - 6.5.1. Most Frequent CINs Used in the Vaccination Process
- 6.6. Existing Types of Prevention and Application in the Vaccination Process
  - 6.6.1. Primary Prevention in the Vaccination Process
  - 6.6.2. Secondary Prevention in the Vaccination Process
  - 6.6.3. Tertiary Prevention in the Vaccination Process
  - 6.6.4. Quaternary Prevention in the Vaccination Process
- 6.7. Immunization in Nursing Specialization
- 6.8. Nursing News on Immunization

## Module 7. Adult Vaccination

- 7.1. Adult Immunization Schedules
  - 7.1.1. Characteristics of a Vaccination Schedule
  - 7.1.2. Vaccination Schedules in the Adult Population
- 7.2. Vaccines From 19 to 64 Years Old
  - 7.2.1. Recommended Vaccines in Adult Population Between 19-64 Years Old
- 7.3. Vaccination > 64 Years
  - 7.3.1. Recommended Vaccines in Adults Older Than 64 Years of Age
- 7.4. Vaccination of Pregnant Women
  - 7.4.1. Vaccines Recommended for Pregnant Women
  - 7.4.2. Characteristics of Vaccination for Pregnant Women
- 7.5. Vaccination During Breastfeeding
  - 7.5.1. Specific Characteristics of Vaccination during Breastfeeding
- 7.6. Vaccine Adaptation in Adult Population
  - 7.6.1. Calendar Correction in Adult Population
- 7.7. Vaccination of Adults Living with Patients with Risk Pathology
- 7.8. Prophylactic Post-Exposure Vaccination
- 7.9. Vaccination in Healthcare Personnel

## Module 8. Pediatric Vaccination

- 8.1. Global Immunization Vision and Strategy (GIVS)
- 8.2. Pediatric Vaccine Schedules
  - 8.2.1. Characteristics of a Vaccination Schedule
  - 8.2.2. Vaccination Schedules in the Paediatric Population
- 8.3. Vaccination Between 0-12 Months
  - 8.3.1. Recommended Vaccines in the Paediatric Population Between 0-12 Months
- 8.4. Vaccination Between 12 Months and 4 Years Old
  - 8.4.1. Recommended Vaccines in Paediatric Population Between 12 months and 4 Years Old
- 8.5. Vaccination Between 4-14 Years Old
  - 8.5.1. Recommended Vaccines in the Paediatric Population Between 4-14 Years Old

- 8.6. Adolescent Vaccination
  - 8.6.1. Recommended Vaccines in Adolescent Pediatric Population
- 8.7. Vaccination of the Premature Infant
  - 8.7.1. Characteristics Specific to Vaccination of the Preterm Infant
  - 8.7.2. Recommended Vaccines in Pre-Term Pediatric Population
- 8.8. Non-pharmacological Methods in Pain Control
  - 8.8.1. Breastfeeding as a Non-Pharmacologic Method for Vaccination Pain
- 8.9. Vaccine Adaptation in Children
  - 8.9.1. Calendar Correction in Children
  - 8.9.2. Calendar Correction in Immigrant Children
- 8.10. Myths and False Beliefs in Childhood Immunization

## Module 9. Vaccination in Special Situations

- 9.1. Accelerated Vaccination
  - 9.1.1. Situations Requiring Adaptation of Vaccination
  - 9.1.2. Adaptive Learning of Accelerated Vaccination
- 9.2. Vaccination in the Pediatric Patient with Primary Immunodeficiencies
  - 9.2.1. Vaccination Recommended for Pediatric Patients with Primary Immunodeficiencies
  - 9.2.2. Characteristics of Vaccination of Pediatric Patients with Primary Immunodeficiencies
- 9.3. Vaccination in the Pediatric Patient with Anatomic or Functional Asplenia
  - 9.3.1. Recommended Vaccines in Pediatric Patients with Anatomic or Functional Asplenia
  - 9.3.2. Characteristics of Vaccination in Pediatric Patients with Anatomical or Functional Asplenia
- 9.4. Vaccinations for Pediatric Patients with HIV
  - 9.4.1. Vaccination Recommended for Pediatric Patients with HIV
  - 9.4.2. Characteristics of Vaccination of Pediatric Patients with HIV
- 9.5. Vaccinations for Pediatric Patients With Cancer
  - 9.5.1. Recommended Vaccinations for Pediatric Patients with Cancer
  - 9.5.2. Characteristics of Vaccinations for Pediatric Patients with Cancer

- 9.6. Vaccination in the Pediatric Patient With Solid Organ or Hematopoietic Transplantation
  - 9.6.1. Recommended Vaccines for Pediatric Patients with Solid Organ or Hematopoietic Transplants
  - 9.6.2. Characteristics of Vaccinations for Pediatric Patients with Solid Organ or Hematopoietic Transplants
- 9.7. Vaccinations for Chronic Pediatric Patients
  - 9.7.1. Recommended Vaccinations for Chronic Pediatric Patients
  - 9.7.2. Characteristics of Vaccinations for Chronic Pediatric Patients
- 9.8. Vaccinations for Pediatric Patients with Down Syndrome
  - 9.8.1. Recommended Vaccinations for Pediatric Patients with Down Syndrome
  - 9.8.2. Characteristics of Vaccinations for Pediatric Patients with Down Syndrome
- 9.9. Immigrant, Refugee or Adopted Population Vaccination
- 9.10. International Traveler's Vaccination
  - 9.10.1. Vaccines to Be Administered When Traveling to Tropical Countries

## Module 10. The Future of Vaccines

- 10.1. Vaccines in Development
  - 10.1.1. Different Vaccines Currently in Development
- 10.2. Vaccines and the Media
- 10.3. Reverse Vaccinology: Genome
  - 10.3.1. What Is the Genome?
  - 10.3.2. Concept of Reverse Vaccinology
- 10.4. Global Vaccination Strategy
- 10.5. Anti-Vaccine Movements Situation and Approach
- 10.6. Vaccines and COVID-19
  - 10.6.1. Vaccines and COVID 19
- 10.7. Vaccine Safety Network
- 10.8. Vaccine Web Query
- 10.9. Vaccine Website Credibility
  - 10.9.1. Tips for Checking the Reliability of a Vaccine Website
- 10.10. Tips for Finding Reliable Information Online
  - 10.10.1. Practical Tips for Finding Reliable Online Health Information



*A unique training opportunity  
to advance your career”*

06

# Methodology

This academic program offers students a different way of learning. Our methodology uses a cyclical learning approach: **Relearning**.

This teaching system is used, for example, in the most prestigious medical schools in the world, and major publications such as the **New England Journal of Medicine** have considered it to be one of the most effective.







“

*Discover Relearning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization"*

## At TECH Nursing School we use the Case Method

In a given situation, what should a professional do? Throughout the program, students will face multiple simulated clinical cases, based on real patients, in which they will have to do research, establish hypotheses, and ultimately resolve the situation. There is an abundance of scientific evidence on the effectiveness of the method. Nurses learn better, faster, and more sustainably over time.

*With TECH, nurses can experience a learning methodology that is shaking the foundations of traditional universities around the world.*



According to Dr. Gérvas, the clinical case is the annotated presentation of a patient, or group of patients, which becomes a "case", an example or model that illustrates some peculiar clinical component, either because of its teaching power or because of its uniqueness or rarity. It is essential that the case is based on current professional life, in an attempt to recreate the real conditions in professional nursing practice.

“

*Did you know that this method was developed in 1912, at Harvard, for law students? The case method consisted of presenting students with real-life, complex situations for them to make decisions and justify their decisions on how to solve them. In 1924, Harvard adopted it as a standard teaching method”*

The effectiveness of the method is justified by four fundamental achievements:

1. Nurses who follow this method not only grasp concepts, but also develop their mental capacity, by evaluating real situations and applying their knowledge.
2. The learning process has a clear focus on practical skills that allow the nursing professional to better integrate knowledge acquisition into the hospital setting or primary care.
3. Ideas and concepts are understood more efficiently, given that the example situations are based on real-life.
4. Students like to feel that the effort they put into their studies is worthwhile. This then translates into a greater interest in learning and more time dedicated to working on the course.



## Relearning Methodology

At TECH we enhance the case method with the best 100% online teaching methodology available: Relearning.

This university is the first in the world to combine case studies with a 100% online learning system based on repetition combining a minimum of 8 different elements in each lesson, which is a real revolution compared to the simple study and analysis of cases.



*The nurse will learn through real cases and by solving complex situations in simulated learning environments. These simulations are developed using state-of-the-art software to facilitate immersive learning.*



At the forefront of world teaching, the Relearning method has managed to improve the overall satisfaction levels of professionals who complete their studies, with respect to the quality indicators of the best online university (Columbia University).

With this methodology we have trained more than 175,000 nurses with unprecedented success in all specialities regardless of practical workload. Our pedagogical methodology is developed in a highly competitive environment, with a university student body with a strong socioeconomic profile and an average age of 43.5 years old.

*Relearning will allow you to learn with less effort and better performance, involving you more in your specialization, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation to success.*

In our program, learning is not a linear process, but rather a spiral (learn, unlearn, forget, and relearn). Therefore, we combine each of these elements concentrically.

The overall score obtained by TECH's learning system is 8.01, according to the highest international standards.



This program offers the best educational material, prepared with professionals in mind:



### Study Material

All teaching material is produced by the specialists who teach the course, specifically for the course, so that the teaching content is really specific and precise.

These contents are then applied to the audiovisual format, to create the TECH online working method. All this, with the latest techniques that offer high quality pieces in each and every one of the materials that are made available to the student.



### Nursing Techniques and Procedures on Video

We introduce you to the latest techniques, to the latest educational advances, to the forefront of current medical techniques. All of this in direct contact with students and explained in detail so as to aid their assimilation and understanding. And best of all, you can watch them as many times as you want.



### Interactive Summaries

The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



### Additional Reading

Recent articles, consensus documents and international guidelines, among others. In TECH's virtual library, students will have access to everything they need to complete their course.







#### Expert-Led Case Studies and Case Analysis

Effective learning ought to be contextual. Therefore, TECH presents real cases in which the expert will guide students, focusing on and solving the different situations: a clear and direct way to achieve the highest degree of understanding.



#### Testing & Retesting

We periodically evaluate and re-evaluate students' knowledge throughout the program, through assessment and self-assessment activities and exercises, so that they can see how they are achieving their goals.



#### Classes

There is scientific evidence suggesting that observing third-party experts can be useful.

Learning from an Expert strengthens knowledge and memory, and generates confidence in future difficult decisions.



#### Quick Action Guides

TECH offers the most relevant contents of the course in the form of worksheets or quick action guides. A synthetic, practical, and effective way to help students progress in their learning.



07

# Certificate

The Professional Master's Degree in Vaccines in Nursing guarantees you, in addition to the most rigorous and updated training, access to a Professional Master's Degree issued by TECH Technological University.



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*Successfully complete this program  
and receive your university degree  
without travel or laborious paperwork”*

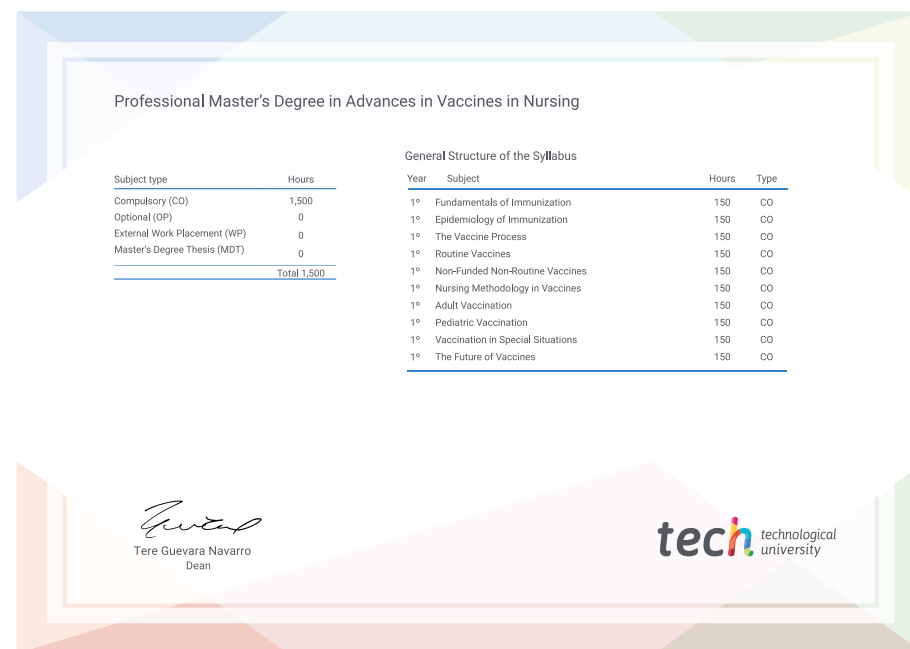
This **Professional Master's Degree in Vaccines in Nursing** contains the most complete and updated scientific program on the market.

After the student has passed the evaluations, they will receive their corresponding **Professional Master's Degree** issued by **TECH Technological University** via tracked delivery\*.

The certificate issued by **TECH Technological University** will reflect the qualification obtained in the Professional Master's Degree, and meets the requirements commonly demanded by labor exchanges, competitive examinations, and professional career evaluation committees.

Title: **Professional Master's Degree in Vaccines in Nursing**

Official N° of hours: **1,500 h.**



\*Apostille Convention. In the event that the student wishes to have their paper certificate issued with an apostille, TECH EDUCATION will make the necessary arrangements to obtain it, at an additional cost.

future  
health confidence people  
education information tutors  
guarantee accreditation teaching  
institutions technology learning  
community commitment  
personalized service innovation  
knowledge present quality  
online training  
development language  
virtual classroom



## Professional Master's Degree

### Vaccines in Nursing

- » Modality: online
- » Duration: 12 months
- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online



# Professional Master's Degree

## Vaccines in Nursing

